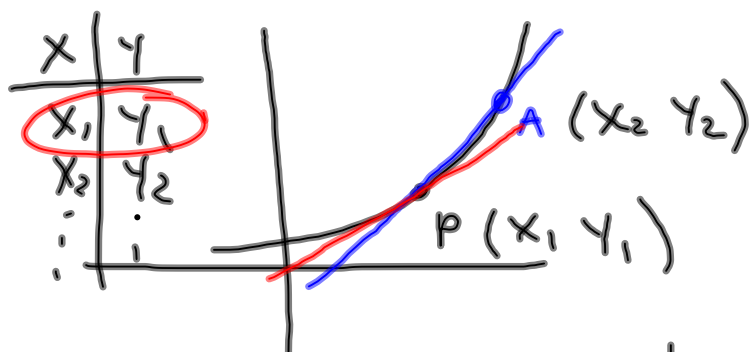


Review 5 Derivatives

derivative at a point ^{slope} (number)

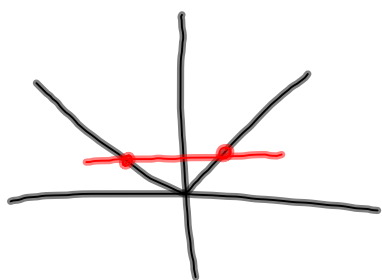
derivative as a function ^(equation)
^{slope formula}



$$\text{right hand diff quot} = \frac{y_2 - y_1}{x_2 - x_1} \approx \underline{\text{der.}}$$

Mar 12-9:45 AM

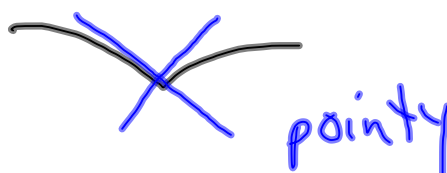
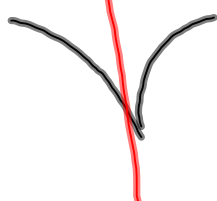
differentiable - the derivative exists



symmetric difference
quotient

not differentiable at $x=0$

cusp ^{vertical tangent}



pointy

Mar 12-9:56 AM

discontinuities

not continuous, not diff.

is diff, is cont.

Mar 12-10:01 AM